

IN THE CLAIMS:

Please cancel Claims 5, 13-16 and 21-23, without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1, 4, 6-8, 10 and 17-20, and add new Claim 24, as follows.

1. (Currently Amended) A method of producing an image-forming apparatus wherein a face plate having phosphors of the three primary colors is opposed to a rear plate comprising a plurality of electron-emitting devices, each having a first electrode and a second electrode, and a plurality of column-directional ~~wires~~ wirings and row-directional ~~wires~~ wirings are connected to the plurality of electron-emitting devices, and the phosphors of the three primary colors are disposed in the same order repeatedly along the column direction, said method comprising:

(a) a step of arranging a plurality of first electrodes and second electrodes on the rear plate such that first and second electrodes of each of the electron-emitting devices are opposed to each other in the row direction;

(b) a step of forming the plurality of column-directional ~~wires~~ wirings, wherein each of the column-directional ~~wires~~ wirings connects commonly a plurality of the first electrodes;

(c) a step of forming the plurality of row-directional ~~wires~~ wirings, wherein each of the row-directional ~~wires~~ wirings connects commonly a plurality of the second electrodes,

intervals of the row-directional ~~wires~~ wirings are larger than those of the column-directional ~~wires~~ wirings, and

each of the row-directional ~~wires~~ wirings cross some of the column-directional ~~wires~~ wirings; and

the row-directional wirings are formed so as to be insulated from the column-directional wirings; and

~~(d) a step of forming an insulating layer at each of intersections between the row-directional wires and column-directional wires; and~~

~~(e)~~ (d) a step of applying a liquid containing at least a metal or a semiconductor so as to connect the first and second electrodes to each other according to an ink jet method, and

~~wherein, at each of the intersections, each of the column-directional wires is disposed between each of the row-directional wires and the rear plate; and~~

~~wherein~~ said step of forming the column-directional ~~wires~~ wirings comprises:

a step of forming a film comprising a photosensitive material and an electroconductive material on the rear plate;

a step of irradiating desired areas of the film with light;

a step of patterning the film; and

a step of baking the patterned film.

2. (Previously Presented) The production method of the image-forming apparatus according to Claim 1, wherein said step of forming the film comprising the photosensitive material and the electroconductive material on the rear plate is a step of applying the film in a first pattern.

3. (Previously Presented) The production method of the image-forming apparatus according to Claim 2, wherein said step of applying the first pattern is a step of selectively forming the film comprising the photosensitive material and electroconductive material on the rear plate through apertures of a mask having the apertures of a desired shape.

4. (Currently Amended) The production method of the image-forming apparatus according to either one of Claims 1 to 3, wherein ~~the first electrodes and second electrodes are formed according to an offset printing method~~ at each of the intersections, each of the column-directional wirings is disposed between each of the row directional wirings and the rear plate.

5. (Canceled)

6. (Currently Amended) A method of producing an image-forming apparatus which comprises a face plate having phosphors, a rear plate having a plurality of

electron-emitting devices and a plurality of wirings connected to the plurality of electron-emitting devices, said method comprising the steps of:

(a) arranging a plurality of first electrodes and second electrodes on the rear plate;

(b) forming a plurality of column-directional wirings,
wherein each of the row-directional wirings connects some of the first electrodes, and

(c) forming a plurality of row-directional wirings,
wherein each of the row-directional wirings connects some of the second electrodes,

each of the row-directional wirings cross some of the column-directional wirings and the row directional wirings are formed so as to be insulated from the column-directional wirings; and

~~(d) forming an insulating layer at each of intersections between the row-directional wirings and column-directional wirings;~~

wherein a cross-sectional area of the row-directional wirings is larger than a cross sectional area of the column-directional wirings, and

wherein said step of forming the column-directional wirings comprises:

~~(e)~~ (d) forming a film comprising a photosensitive material and an electroconductive material on the rear plate;

~~(f)~~ (e) irradiating desired areas of the film with light;

~~(g)~~ (f) patterning the film; and

~~(h)~~ (g) baking the patterned film.

7. (Currently Amended) A method of producing an image-forming apparatus which comprises a face plate having phosphors, a rear plate having a plurality of electron-emitting devices and a plurality of wirings connected to the plurality of electron-emitting devices, said method comprising the steps of:

(a) arranging a plurality of first electrodes and second electrodes on the rear plate;

(b) forming a plurality of column-directional wirings, wherein each of the column-directional wirings connects some of the first electrodes;

(c) forming a plurality of row-directional wirings, wherein each of the row-directional wirings connects some of the second electrodes,

each of the row-directional wirings cross some of the column-directional wirings and the row-directional wirings are formed so as to be insulated from the column directional wirings; and

~~(d) forming an insulating layer at each of intersections between the row-directional wirings and column-directional wirings;~~

wherein a width of the row-directional wirings is wider than a width of the column-directional wirings, and

wherein said step of forming the column-directional wirings comprises:

~~(e)~~ (d) forming a film comprising a photosensitive material and an electroconductive material on the rear plate;

~~(f)~~ (e) irradiating desired areas of the film with light;

~~(g)~~ (f) patterning the film; and

~~(h)~~ (g) baking the patterned film.

8. (Currently Amended) A method of producing an image-forming apparatus which comprises a face plate having phosphors, a rear plate having a plurality of electron-emitting devices and a plurality of wirings connected to the plurality of electron-emitting devices, said method comprising the steps of:

(a) arranging a plurality of first electrodes and second electrodes on the rear plate;

(b) forming a plurality of column-directional wirings, wherein each of the column-directional wirings connects some of the first electrodes;

(c) forming a plurality of row-directional wirings, wherein each of the row-directional wirings connects some of the second electrodes,

each of the row-directional wirings cross some of the column-directional wirings and the row-directional wirings are formed so as to be insulated from the column-directional wirings; and

~~(d) forming an insulating layer at each of intersections between the row-directional wirings and column-directional wirings,~~

wherein a thickness of the row-directional wirings is thicker than a thickness of the column-directional wirings, and

wherein said step of forming the column-directional wirings comprises:

~~(e)~~ (d) forming a film comprising a photosensitive material and an electroconductive material on the rear plate;

~~(f)~~ (e) irradiating desired areas of the film with light;

~~(g)~~ (f) patterning the film; and

~~(h)~~ (g) baking the patterned film.

9. (Previously Presented) The production method of the image-forming apparatus according to any one of Claims 1 to 3, wherein the image-forming apparatus further comprises a spacer for supporting the space between the face plate and rear plate, the spacer being placed on the row-directional ~~wire~~ wirings.

10. (Currently Amended) A method of producing an image-forming apparatus wherein a face plate having a phosphor is opposed to a rear plate comprising a plurality of electron-emitting devices, each having a first electrode and a second electrode, and a plurality of ~~wires~~ wirings connects to the plurality of electron-emitting devices, said method comprising:

(a) a step of arranging a plurality of first electrodes and second electrodes on the rear plate;

(b) a step of selectively forming a film comprising a photosensitive material and an electroconductive material on the rear plate through apertures of a mask having the apertures of a desired shape;

(c) a step of irradiating desired areas of the film formed on the rear plate, with light;

(d) a step of patterning the film;

(e) a step of baking the patterned film to form a plurality of ~~wires~~ wirings connected to the electrodes; and

(f) a step of forming an electroconductive film so as to connect the first and second electrodes to each other.

11. (Previously Presented) The production method of the image-forming apparatus according to Claim 10, said production method of the image-forming apparatus further comprising a step of forming a fissure in the electroconductive film placed between the electrodes.

12. (Previously Presented) The production method of the image-forming apparatus according to Claim 11, wherein the fissure is formed by allowing an electric current to flow in the electroconductive film.

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Currently Amended) A method of producing an electron source substrate which comprises a rear plate having a plurality of electron-emitting devices and a plurality of wiring connected to the plurality of electron-emitting devices, said method comprising the steps of:

(a) forming a plurality of column-directional wirings; and

(b) forming a plurality of row-directional wirings, wherein each of the row-directional wirings cross some of the column-directional wirings, and the row-directional wirings are formed so as to be insulated from the column-directional wirings,

wherein a cross-sectional area of the row-directional wirings is larger than a cross-sectional area of the column-directional wirings, and

wherein said step of forming the column-directional wiring comprises:

(c) forming a film comprising a photosensitive material and an electroconductive material on the rear plate;

(d) irradiating desired areas of the film with light;

- (e) patterning the film; and
- (f) baking the patterned film.

18. (Currently Amended) A method of producing an electron source substrate which comprises a rear plate having a plurality of electron-emitting devices and a plurality of wirings connected to the plurality of electron-emitting devices, said method comprising the steps:

- (a) forming a plurality of column-directional wirings; and
- (b) forming a plurality of row-directional wirings, wherein each of the row-directional wirings cross some of the column-directional wirings and the row-directional wirings are formed so as to be insulated from the column-directional wirings,

wherein a width of the row-directional wirings is wider than a width of the column-directional wirings, and

wherein said step of forming the column-directional wirings comprises:

- (c) forming a film comprising a photosensitive material and an electroconductive material on the rear plate;
- (d) irradiating desired areas of the film with light;
- (e) patterning the film; and
- (f) baking the patterned film.

19. (Currently Amended) A method of producing an electron source substrate which comprises a rear plate having a plurality of electron-emitting devices and a

plurality of wirings connected to the plurality of electron-emitting devices, said method comprising the steps of:

(a) forming a plurality of column-directional wirings; and

(b) forming a plurality of row-directional wirings,

wherein each of the row-directional wirings cross some of the column-directional wirings, and said row-directional wirings are formed so as to be insulated from said column-directional wirings,

wherein a thickness of the row-directional wirings is thicker than a thickness of the column-directional wirings, and

wherein said step of forming the column-directional wiring comprises:

(c) forming a film comprising a photosensitive material and an electroconductive material on the rear plate;

(d) irradiating desired areas of the film with light;

(e) patterning the film; and

(f) baking the patterned film.

20. (Currently Amended) The production method of the image-forming apparatus according to claims 1 to 3, further comprising the steps of: ~~A method of producing an electron source substrate comprises a rear plate having a plurality of electron-emitting devices and a plurality wirings connected to the plurality of electron-emitting devices, said method comprising the steps of:~~

(a) forming a plurality of column-directional wirings; and

~~(b) forming a plurality of row-directional wirings,~~
~~wherein each of the row-directional wirings cross some of the column-~~
~~directional wirings,~~
~~wherein said step of forming the column-directional wiring comprises:~~
~~(c) forming a film comprising a photosensitive material and an~~
~~electroconductive material on the rear plate;~~
~~(d) irradiating desired areas of the film with light,~~
~~(e) patterning the film; and~~
~~(f) baking the patterned film;~~
~~(g) connecting a scanning circuit for generating a scanning signal to the~~
~~plurality of column-directional wirings; and~~
~~(h) connecting a modulation circuit for generating a modulation signal to the~~
~~plurality of column-directional wirings.~~

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (New) The production method of the image-forming apparatus according to claims 1 to 3, wherein the plurality of row-directional wirings are formed by using a screen printing method.